

# **Material Safety Data Sheet**

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<b>PRODUCT NAME:</b>	3M(TM) Automix(TM) Panel Bonding Adhesive, PN 08116 (Meets GM 6449G
	and Daimler Chrysler MS-CD 507)
<b>MANUFACTURER:</b>	3M
<b>DIVISION:</b>	Automotive Aftermarket

ADDRESS: 3M Center St. Paul, MN 55144-1000

#### EMERGENCY PHONE: 1-800-364-3577 or (651) 737-6501 (24 hours)

**Issue Date:** 01/03/2008 **Supercedes Date:** 05/02/2004

**Document Group:** 19-0738-5

#### **ID** Number(s):

41-3701-2169-5, 60-9801-0901-5

This product is a kit or a multipart product which consists of multiple, independently packaged components. An MSDS for each of these components is included. Please do not separate the component MSDSs from this cover page. The document numbers of the MSDSs for components of this product are:

19-0737-7, 19-0736-9

**Reason for Reissue:** The MSDS has been revised because 3M has adopted the 16-section ANSI/ISO format. The potential hazards of the product have not changed. We encourage you to reread the MSDS and review the information.

Revision Changes: Copyright was modified. Kit: Component document group number(s) was modified. Kit initial issue message was modified. Kit: ID Number Heading was added. Kit: ID Number(s) was added.

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# MATERIAL SAFETY DATA SHEET 3M(TM) Automix(TM) Panel Bonding Adhesive, PN 08116 (Meets GM 6449G and Daimler Chrysler MS-CD 507) 01/03/2008

TRADE. User is responsible for determining whether the 3M product is fit for a particular purpose and suitable for user's method of use or application. Given the variety of factors that can affect the use and application of a 3M product, some of which are uniquely within the user's knowledge and control, it is essential that the user evaluate the 3M product to determine whether it is fit for a particular purpose and suitable for user's method of use or application.

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### **SECTION 1: PRODUCT AND COMPANY IDENTIFICATION**

PRODUCT NAME: 3M(TM) Automix(TM) Panel Bonding Adhesive - Part A, PN 08116 (Meets GM 6449G and Daimler Chrysler MS-COD 507)
 MANUFACTURER: 3M

**DIVISION:** Automotive Aftermarket

ADDRESS: 3M Center St. Paul, MN 55144-1000

EMERGENCY PHONE: 1-800-364-3577 or (651) 737-6501 (24 hours)

<b>Issue Date:</b>	08/07/2007
Supercedes Date:	07/25/2007

**Document Group:** 19-0736-9

#### **Product Use:**

Intended Use: Specific Use: Automotive Part A of a two-part structural adhesive used to bond steel or aluminum auto body panels.

## **SECTION 2: INGREDIENTS**

Ingredient	C.A.S. No.	<u>% by Wt</u>
ALIPHATIC POLYMER DIAMINE	68911-25-1	30 - 60
FUSED SILICA	60676-86-0	10 - 30
BUTADIENE ACRYLONITRILE POLYMER	68683-29-4	10 - 30
ALKYL AMINES	68955-53-3	7 - 13
TRIS(2,4,6-DIMETHYLAMINOMONOMETHYL)PHENOL	90-72-2	5 - 10
POLY(OXYPROPYLENE)DIAMINE	9046-10-0	3 - 7
INORGANIC NITRATE (NJ Trade Secret No. 04499600-5975P)	Trade Secret	1 - 5
BIS(3-AMINOPROPYL) ETHER OF DIETHYLENE GLYCOL	4246-51-9	1 - 5
DIMETHYL SILOXANE, REACTION PRODUCT WITH SILICA	67762-90-7	1 - 5
POLY(OXYPROPYLENE)TRIAMINE	39423-51-3	0.5 - 1.5
N-AMINOETHYLPIPERAZINE	140-31-8	0.5 - 1.5
BIS[(DIMETHYLAMINO)METHYL]PHENOL	71074-89-0	< 1.5
TOLUENE	108-88-3	< 0.5
QUARTZ SILICA	14808-60-7	< 0.02

# **SECTION 3: HAZARDS IDENTIFICATION**

### 3.1 EMERGENCY OVERVIEW

#### Specific Physical Form: Viscous

Odor, Color, Grade: Amber color; Slight amine odor

General Physical Form: Liquid

**Immediate health, physical, and environmental hazards:** May cause chemical eye burns. May cause allergic skin reaction. May cause chemical skin burns. May cause chemical gastrointestinal burns. Contains a chemical or chemicals which can cause birth defects or other reproductive harm. Contains a chemical or chemicals which can cause cancer.

### **3.2 POTENTIAL HEALTH EFFECTS**

#### Eye Contact:

Corrosive (Eye Burns): Signs/symptoms may include cloudy appearance of the cornea, chemical burns, severe pain, tearing, ulcerations, significantly impaired vision or complete loss of vision.

#### **Skin Contact:**

Corrosive (Skin Burns): Signs/symptoms may include localized redness, swelling, itching, intense pain, blistering, ulceration, and tissue destruction.

Prolonged or repeated exposure may cause:

Allergic Skin Reaction (non-photo induced): Signs/symptoms may include redness, swelling, blistering, and itching.

May be absorbed through skin and cause target organ effects.

#### Inhalation:

Respiratory Tract Irritation: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain.

May be absorbed following inhalation and cause target organ effects.

#### **Ingestion:**

Gastrointestinal Corrosion: Signs/symptoms may include severe mouth, throat and abdominal pain; nausea; vomiting; and diarrhea; blood in the feces and/or vomitus may also be seen.

May be absorbed following ingestion and cause target organ effects.

#### **Target Organ Effects:**

Persons previously sensitized to amines may develop a cross-sensitization reaction to certain other amines.

Contains a chemical or chemicals which can cause birth defects or other reproductive harm.

#### **Carcinogenicity:**

Contains a chemical or chemicals which can cause cancer.

Ingredient QUARTZ SILICA QUARTZ SILICA <u>C.A.S. No.</u> 14808-60-7 14808-60-7 Class Description Group 1 Known human carcinogen **Regulation** 

International Agency for Research on Cancer National Toxicology Program Carcinogens

# **SECTION 4: FIRST AID MEASURES**

### 4.1 FIRST AID PROCEDURES

The following first aid recommendations are based on an assumption that appropriate personal and industrial hygiene practices are followed.

Eye Contact: Immediately flush eyes with large amounts of water for at least 15 minutes. Get immediate medical attention.

**Skin Contact:** Remove contaminated clothing and shoes. Immediately flush skin with large amounts of water for at least 15 minutes. Get immediate medical attention. Wash contaminated clothing and clean shoes before reuse.

Inhalation: Remove person to fresh air. If signs/symptoms develop, get medical attention.

**If Swallowed:** Do not induce vomiting. Give victim two glasses of water. Never give anything by mouth to an unconscious person. Get immediate medical attention.

# **SECTION 5: FIRE FIGHTING MEASURES**

### 5.1 FLAMMABLE PROPERTIES

Autoignition temperature Flash Point Flammable Limits - LEL Flammable Limits - UEL OSHA Flammability Classification: No Data Available >=230 °F [Test Method: Closed Cup] No Data Available No Data Available Class IIIB Combustible Liquid

### 5.2 EXTINGUISHING MEDIA

Ordinary combustible material. Use fire extinguishers with class A extinguishing agents (e.g., water, foam).

### **5.3 PROTECTION OF FIRE FIGHTERS**

**Special Fire Fighting Procedures:** Wear full protective equipment (Bunker Gear) and a self-contained breathing apparatus (SCBA).

Unusual Fire and Explosion Hazards: Not applicable. Non-flammable: ordinary combustible material.

Note: See STABILITY AND REACTIVITY (SECTION 10) for hazardous combustion and thermal decomposition information.

# **SECTION 6: ACCIDENTAL RELEASE MEASURES**

Accidental Release Measures: Observe precautions from other sections. Call 3M- HELPS line (1-800-364-3577) for more information on handling and managing the spill. Evacuate unprotected and untrained personnel from hazard area. The spill should be cleaned up by qualified personnel. Ventilate the area with fresh air. Contain spill. For larger spills, cover drains and build dikes to prevent entry into sewer systems or bodies of water. Collect as much of the spilled material as possible. Clean up residue with an appropriate organic solvent. Read and follow safety precautions on the solvent label and MSDS. Collect the resulting residue

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containing solution. Place in a metal container approved for transportation by appropriate authorities. Seal the container. Dispose of collected material as soon as possible.

In the event of a release of this material, the user should determine if the release qualifies as reportable according to local, state, and federal regulations.

# **SECTION 7: HANDLING AND STORAGE**

### 7.1 HANDLING

Do not eat, drink or smoke when using this product. Wash exposed areas thoroughly with soap and water. Avoid breathing of vapors, mists or spray. Avoid skin contact with hot material. Avoid eye contact with vapors, mists, or spray. Keep out of the reach of children.

### 7.2 STORAGE

Store in a cool place. Store away from acids. Keep container in well-ventilated area. Store away from flammable and combustible materials.

# SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 ENGINEERING CONTROLS

Use with appropriate local exhaust ventilation. Provide appropriate local exhaust when product is heated. Use general dilution ventilation and/or local exhaust ventilation to control airborne exposures to below Occupational Exposure Limits and/or control mist, vapor, or spray. If ventilation is not adequate, use respiratory protection equipment.

### **8.2 PERSONAL PROTECTIVE EQUIPMENT (PPE)**

#### 8.2.1 Eye/Face Protection

Avoid eye contact with vapors, mists, or spray. The following eye protection(s) are recommended: Full Face Shield, Indirect Vented Goggles.

#### 8.2.2 Skin Protection

Wear appropriate gloves, such as Nomex, when handling this material to prevent thermal burns. Avoid skin contact. Avoid skin contact with hot material. Select and use gloves and/or protective clothing to prevent skin contact based on the results of an exposure assessment. Consult with your glove and/or protective clothing manufacturer for selection of appropriate compatible materials.

#### 8.2.3 Respiratory Protection

Avoid breathing of vapors, mists or spray.

Select one of the following NIOSH approved respirators based on airborne concentration of contaminants and in accordance with OSHA regulations: Fullface supplied-air respirator, Half facepiece or fullface air-purifying respirator with P100 particulate filters. Consult the current 3M Respiratory Selection Guide for additional information or call 1-800-243-4630 for 3M technical assistance.

#### 8.2.4 Prevention of Swallowing

Do not eat, drink or smoke when using this product. Wash exposed areas thoroughly with soap and water.

### **8.3 EXPOSURE GUIDELINES**

<u>Ingredient</u>	<u>Authority</u>	<b>Type</b>	<u>Limit</u>	Additional Information
DIMETHYL SILOXANE, REACTION	CMRG	CEIL	5 mg/m3	
PRODUCT WITH SILICA				

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FIBROUS GLASS DUST FUSED SILICA FUSED SILICA QUARTZ SILICA QUARTZ SILICA TOLUENE	ACGIH ACGIH OSHA ACGIH OSHA ACGIH	TWA, as dust TWA, respirable TWA, respirable TWA, respirable TWA, respirable TWA	10 mg/m3 0.1 mg/m3 0.025 mg/m3 0.1 mg/m3 20 ppm	Table Z-1A Table A2 Table Z-1A Table A4
TOLUENE	CMRG	STEL	75 ppm	Skin Notation*
TOLUENE	OSHA	TWA, Vacated	100 ppm	
TOLUENE	OSHA	STEL, Vacated	150 ppm	
TOLUENE	OSHA	TWA	200 ppm	Table Z-2
TOLUENE	OSHA	CEIL	300 ppm	Table Z-2
TRIS(2,4,6-	CMRG	TWA	5 ppm	
DIMETHYLAMINOMONOMETHYL)PHEN				
OL				

\* Substance(s) refer to the potential contribution to the overall exposure by the cutaneous route including mucous membrane and eye, either by airborne or, more particularly, by direct contact with the substance. Vehicles can alter skin absorption.

VAC Vacated PEL:Vacated Permissible Exposure Limits [PEL] are enforced as the OSHA PEL in some states. Check with your local regulatory agency.

SOURCE OF EXPOSURE LIMIT DATA:

ACGIH: American Conference of Governmental Industrial Hygienists

CMRG: Chemical Manufacturer Recommended Guideline

OSHA: Occupational Safety and Health Administration

AIHA: American Industrial Hygiene Association Workplace Environmental Exposure Level (WEEL)

## **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

Specific Physical Form: Odor, Color, Grade: General Physical Form: Autoignition temperature Flash Point Flammable Limits - LEL Flammable Limits - UEL Boiling point Density Vapor Density

Vapor Pressure

Specific Gravity pH Melting point Solubility In Water

Evaporation rate Volatile Organic Compounds

VOC Less H2O & Exempt Solvents

Viscosity

Viscous Amber color; Slight amine odor Liquid *No Data Available* >=230 °F [*Test Method:* Closed Cup] *No Data Available No Data Available No Data Available* 8.7 - 9.7 lb/gal *No Data Available* 

No Data Available

1.1 [*Test Method:* Estimated] [*Ref Std:* WATER=1] Not Applicable Not Applicable No Data Available

<1 [*Ref Std:* BUOAC=1] 0.38 % [*Test Method:* calculated SCAQMD rule 443.1] [*Details:* VOC of mixed material should approximate 0%.] 4.12 g/l [*Test Method:* calculated SCAQMD rule 443.1] [*Details:* VOC of mixed material should approximate 0 g/L.] > 100000 centipoise

# SECTION 10: STABILITY AND REACTIVITY

Stability: Stable.

Materials and Conditions to Avoid: None known

Hazardous Polymerization: Hazardous polymerization will not occur.

### Hazardous Decomposition or By-Products

<u>Substance</u> Carbon monoxide Carbon dioxide Oxides of Nitrogen <u>Condition</u> Not Specified Not Specified Not Specified

# SECTION 11: TOXICOLOGICAL INFORMATION

Please contact the address listed on the first page of the MSDS for Toxicological Information on this material and/or its components.

# **SECTION 12: ECOLOGICAL INFORMATION**

### ECOTOXICOLOGICAL INFORMATION

Not determined.

### **CHEMICAL FATE INFORMATION**

Not determined.

## **SECTION 13: DISPOSAL CONSIDERATIONS**

Waste Disposal Method: As a disposal alternative, dispose of waste product in a permitted hazardous waste facility.

#### EPA Hazardous Waste Number (RCRA): D018 (Benzene)

Since regulations vary, consult applicable regulations or authorities before disposal.

# SECTION 14:TRANSPORT INFORMATION

LB-K100-0126-5

Please contact the emergency numbers listed on the first page of the MSDS for Transportation Information for this material.

# **SECTION 15: REGULATORY INFORMATION**

#### **US FEDERAL REGULATIONS**

Contact 3M for more information.

#### 311/312 Hazard Categories:

Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No Immediate Hazard - Yes Delayed Hazard - Yes

#### Section 313 Toxic Chemicals subject to the reporting requirements of that section and 40 CFR part 372 (EPCRA):

Ingredient	C.A.S. No	% by Wt
INORGANIC NITRATE (NJ Trade Secret No.	Trade Secret	1 - 5
04499600-5975P) (NITRATE COMPOUNDS		
(EPCRA 313))		

#### **STATE REGULATIONS**

Contact 3M for more information.

#### **CALIFORNIA PROPOSITION 65**

<u>Ingredient</u>	<u>C.A.S. No.</u>	<b>Classification</b>
SILICA, CRYSTALLINE (AIRBORNE	NONE	**Carcinogen
PARTICLES OF RESPIRABLE SIZE)		
TOLUENE	108-88-3	*Developmental Toxin

\* WARNING: contains a chemical or chemicals which can cause birth defects or other reproductive harm. \*\* WARNING: contains a chemical which can cause cancer.

#### **CHEMICAL INVENTORIES**

The components of this product are in compliance with the chemical notification requirements of TSCA.

Contact 3M for more information.

### **INTERNATIONAL REGULATIONS**

Contact 3M for more information.

WHMIS: Hazardous

#### This MSDS has been prepared to meet the U.S. OSHA Hazard Communication Standard, 29 CFR 1910.1200.

# **SECTION 16: OTHER INFORMATION**

#### NFPA Hazard Classification

Health: 3 Flammability: 1 Reactivity: 0 Special Hazards: None

National Fire Protection Association (NFPA) hazard ratings are designed for use by emergency response personnel to address the hazards that are presented by short-term, acute exposure to a material under conditions of fire, spill, or similar emergencies. Hazard ratings are primarily based on the inherent physical and toxic properties of the material but also include the toxic properties of combustion or decomposition products that are known to be generated in significant quantities.

Revision Changes: Not Applicable

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## **SECTION 1: PRODUCT AND COMPANY IDENTIFICATION**

PRODUCT NAME: 3M(TM) Automix(TM) Panel Bonding Adhesive - Part B, PN 08116 (Meets GM 6449G and Daimler Chrysler MS-CD 507)
 MANUFACTURER: 3M

**DIVISION:** Automotive Aftermarket

ADDRESS: 3M Center St. Paul, MN 55144-1000

EMERGENCY PHONE: 1-800-364-3577 or (651) 737-6501 (24 hours)

<b>Issue Date:</b>	07/23/2007
Supercedes Date:	10/02/2006

**Document Group:** 19-0737-7

#### **Product Use:**

Intended Use: Specific Use: Automotive Part B of a two-part structural adhesive used to bond either steel or aluminum auto body panels.

## **SECTION 2: INGREDIENTS**

Ingredient 4,4-ISOPROPYLIDENEDIPHENOL-EPICHLOROHYDRIN POLYMER GLASS BEADS FUSED SILICA 1,4-BIS[(2,3-EPOXYPROPOXY)METHYL]CYCLOHEXANE METHYL METHACRYLATE-BUTADIENE-STYRENE POLYMER PERLITE, EXPANDED SILICA 3-(TRIMETHOXYSILYL)PROPYL GLYCIDYL ETHER CARBON BLACK 2,6-DI-TERT-BUTYL-P-CRESOL	<u>C.A.S. No.</u> 25068-38-6 65997-17-3 60676-86-0 14228-73-0 25053-09-2 93763-70-3 7631-86-9 2530-83-8 1333-86-4 128-37-0	$\frac{\% \text{ by Wt}}{30 - 60}$ 10 - 30 7 - 13 7 - 13 5 - 10 3 - 7 1 - 5 0.5 - 1.5 <= 0.5 < 0.2
		<= 0.5

# **SECTION 3: HAZARDS IDENTIFICATION**

### **3.1 EMERGENCY OVERVIEW**

Specific Physical Form: Viscous Odor, Color, Grade: Black General Physical Form: Liquid Immediate health, physical, and environmental hazards: effects. Contains a chemical or chemicals which can cause cancer.

May cause allergic skin reaction. May cause target organ

### **3.2 POTENTIAL HEALTH EFFECTS**

#### **Eye Contact:**

Moderate Eye Irritation: Signs/symptoms may include redness, swelling, pain, tearing, and blurred or hazy vision.

#### **Skin Contact:**

Moderate Skin Irritation: Signs/symptoms may include localized redness, swelling, itching, and dryness.

Prolonged or repeated exposure may cause: Allergic Skin Reaction (non-photo induced): Signs/symptoms may include redness, swelling, blistering, and itching.

May be absorbed through skin and cause target organ effects.

#### Inhalation:

Respiratory Tract Irritation: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain.

May be absorbed following inhalation and cause target organ effects.

#### **Ingestion:**

Gastrointestinal Irritation: Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhea.

May be absorbed following ingestion and cause target organ effects.

#### **Target Organ Effects:**

Prolonged or repeated exposure, above recommended guidelines, may cause:

Central Nervous System (CNS) Depression: Signs/symptoms may include headache, dizziness, drowsiness, incoordination, nausea, slowed reaction time, slurred speech, giddiness, and unconsciousness.

#### **Carcinogenicity:**

Contains a chemical or chemicals which can cause cancer.

Ingredient CARBON BLACK QUARTZ SILICA QUARTZ SILICA <u>C.A.S. No.</u> 1333-86-4 14808-60-7 14808-60-7 Class Description Group 2B Group 1 Known human carcinogen

#### **Regulation**

International Agency for Research on Cancer International Agency for Research on Cancer National Toxicology Program Carcinogens

# **SECTION 4: FIRST AID MEASURES**

### 4.1 FIRST AID PROCEDURES

The following first aid recommendations are based on an assumption that appropriate personal and industrial hygiene practices are followed.

Eye Contact: Flush eyes with large amounts of water. If signs/symptoms persist, get medical attention.

**Skin Contact:** Remove contaminated clothing and shoes. Immediately flush skin with large amounts of water. If signs/symptoms develop, get medical attention. Wash contaminated clothing and clean shoes before reuse.

Inhalation: Remove person to fresh air. If signs/symptoms develop, get medical attention.

**If Swallowed:** Do not induce vomiting unless instructed to do so by medical personnel. Give victim two glasses of water. Never give anything by mouth to an unconscious person. Get medical attention.

# **SECTION 5: FIRE FIGHTING MEASURES**

### 5.1 FLAMMABLE PROPERTIES

Autoignition temperature Flash Point Flammable Limits - LEL Flammable Limits - UEL OSHA Flammability Classification: No Data Available > 200 °F [Test Method: Closed Cup] No Data Available No Data Available Class IIIB Combustible Liquid

### 5.2 EXTINGUISHING MEDIA

Ordinary combustible material. Use fire extinguishers with class A extinguishing agents (e.g., water, foam).

### 5.3 PROTECTION OF FIRE FIGHTERS

**Special Fire Fighting Procedures:** Wear full protective equipment (Bunker Gear) and a self-contained breathing apparatus (SCBA). Water may not effectively extinguish fire; however, it should be used to keep fire-exposed containers and surfaces cool and prevent explosive rupture.

Unusual Fire and Explosion Hazards: Non-flammable: ordinary combustible material.

# Note: See STABILITY AND REACTIVITY (SECTION 10) for hazardous combustion and thermal decomposition information.

# **SECTION 6: ACCIDENTAL RELEASE MEASURES**

Accidental Release Measures: Observe precautions from other sections. Call 3M- HELPS line (1-800-364-3577) for more information on handling and managing the spill. Ventilate the area with fresh air. Contain spill. Cover with absorbent material. Collect as much of the spilled material as possible. Clean up residue with water. Collect the resulting residue containing solution. Place in a closed container approved for transportation by appropriate authorities.

In the event of a release of this material, the user should determine if the release qualifies as reportable according to local, state, and federal regulations.

# **SECTION 7: HANDLING AND STORAGE**

### 7.1 HANDLING

Do not eat, drink or smoke when using this product. Wash exposed areas thoroughly with soap and water. Avoid breathing of vapors, mists or spray. Avoid skin contact. Avoid eye contact with vapors, mists, or spray. Keep out of the reach of children. For industrial or professional use only. Use general dilution ventilation and/or local exhaust ventilation to control airborne exposures to below Occupational Exposure Limits. If ventilation is not adequate, use respiratory protection equipment.

### 7.2 STORAGE

Store away from heat. Keep container tightly closed.

# SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 ENGINEERING CONTROLS

Provide appropriate local exhaust when product is heated. Use general dilution ventilation and/or local exhaust ventilation to control airborne exposures to below Occupational Exposure Limits and/or control dust, fume, or airborne particles. If ventilation is not adequate, use respiratory protection equipment.

### 8.2 PERSONAL PROTECTIVE EQUIPMENT (PPE)

#### 8.2.1 Eye/Face Protection

Avoid eye contact with vapors, mists, or spray. The following eye protection(s) are recommended: Safety Glasses with side shields, Indirect Vented Goggles.

#### 8.2.2 Skin Protection

Avoid skin contact.

Select and use gloves and/or protective clothing to prevent skin contact based on the results of an exposure assessment. Consult with your glove and/or protective clothing manufacturer for selection of appropriate compatible materials. Gloves made from the following material(s) are recommended: Neoprene.

#### 8.2.3 Respiratory Protection

Avoid breathing of vapors, mists or spray.

Select one of the following NIOSH approved respirators based on airborne concentration of contaminants and in accordance with OSHA regulations: Half facepiece or fullface air-purifying respirator with organic vapor cartridges and N95 particulate prefilters. Consult the current 3M Respiratory Selection Guide for additional information or call 1-800-243-4630 for 3M technical assistance.

#### 8.2.4 Prevention of Swallowing

Do not eat, drink or smoke when using this product. Wash exposed areas thoroughly with soap and water.

### 8.3 EXPOSURE GUIDELINES

Ingredient	<u>Authority</u>	Type	<u>Limit</u>	Additional Information
2,6-DI-TERT-BUTYL-P-CRESOL	ACGIH	TWA, inhalable	2 mg/m3	Table A4
		fraction and vapor		
2,6-DI-TERT-BUTYL-P-CRESOL	OSHA	TWA	10 mg/m3	Table Z-1A
3-(TRIMETHOXYSILYL)PROPYL	CMRG	TWA	5 ppm	
GLYCIDYL ETHER				
ALLYL GLYCIDYL ETHER	ACGIH	TWA	1 ppm	Table A4
ALLYL GLYCIDYL ETHER	OSHA	TWA, Vacated	5 ppm	

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ALLYL GLYCIDYL ETHER	OSHA	CEIL	10 ppm	Table Z-1A
CARBON BLACK	ACGIH	TWA	3.5 mg/m3	Table A4
CARBON BLACK	CMRG	TWA	0.5 mg/m3	
CARBON BLACK	OSHA	TWA	3.5 mg/m3	Table Z-1
FUSED SILICA	ACGIH	TWA, respirable	0.1 mg/m3	
FUSED SILICA	OSHA	TWA, respirable	0.1 mg/m3	Table Z-1A
GLASS BEADS	3M	TWA, as dust	10 mg/m3	
QUARTZ SILICA	ACGIH	TWA, respirable	0.025 mg/m3	Table A2
QUARTZ SILICA	OSHA	TWA, respirable	0.1 mg/m3	Table Z-1A
SILICA	CMRG	TWA, as respirable	3 mg/m3	
		dust		

VAC Vacated PEL:Vacated Permissible Exposure Limits [PEL] are enforced as the OSHA PEL in some states. Check with your local regulatory agency.

SOURCE OF EXPOSURE LIMIT DATA:

ACGIH: American Conference of Governmental Industrial Hygienists

CMRG: Chemical Manufacturer Recommended Guideline

OSHA: Occupational Safety and Health Administration

AIHA: American Industrial Hygiene Association Workplace Environmental Exposure Level (WEEL)

# **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

Specific Physical Form: Odor, Color, Grade: General Physical Form: Autoignition temperature Flash Point Flammable Limits - LEL Flammable Limits - UEL Boiling point	Viscous Black Liquid No Data Available > 200 °F [Test Method: Closed Cup] No Data Available No Data Available > 300 °F
Density	7.6 - 8.6 lb/gal
Vapor Density	No Data Available
Vapor Pressure	< 5 mmHg [@ 20 °C]
Specific Gravity	1.2 [ <i>Ref Std:</i> WATER=1]
pH	Not Applicable
Melting point	Not Applicable
Solubility In Water	No Data Available
•	
Evaporation rate	< 1 [ <i>Ref Std:</i> BUOAC=1]
Volatile Organic Compounds	1.4 % [Test Method: calculated SCAQMD rule 443.1] [Details:
	VOC of mixed material should approximate 0%.]
Volatile Organic Compounds	16.8 g/l [Test Method: calculated SCAQMD rule 443.1] [Details:
	VOC of mixed material should approximate 0%.]
VOC Less H2O & Exempt Solvents	16.8 g/l [Test Method: calculated SCAQMD rule 443.1] [Details:
<b>r</b>	VOC of mixed material should approximate 0 g/L.]
Viscosity	> 100000 centipoise
	I I I I I I I I I I I I I I I I I I I

# **SECTION 10: STABILITY AND REACTIVITY**

Stability: Stable.

Materials and Conditions to Avoid: None known

Hazardous Polymerization: Hazardous polymerization will not occur.

### Hazardous Decomposition or By-Products

Substance Aldehydes Carbon monoxide Carbon dioxide Hydrogen Chloride

<u>Condition</u> Not Specified Not Specified Not Specified Not Specified

# SECTION 11: TOXICOLOGICAL INFORMATION

Please contact the address listed on the first page of the MSDS for Toxicological Information on this material and/or its components.

# **SECTION 12: ECOLOGICAL INFORMATION**

### ECOTOXICOLOGICAL INFORMATION

Not determined.

### **CHEMICAL FATE INFORMATION**

Not determined.

# **SECTION 13: DISPOSAL CONSIDERATIONS**

Waste Disposal Method: Cure (harden, set, or react) the product according to product instructions.

Dispose of completely cured (or polymerized) wastes in a sanitary landfill.

As a disposal alternative, incinerate uncured product in an industrial or commercial incinerator in the presence of a combustible material.

Combustion products will include HCl. Facility must be capable of handling halogenated materials.

#### EPA Hazardous Waste Number (RCRA): Not regulated

Since regulations vary, consult applicable regulations or authorities before disposal.

# **SECTION 14:TRANSPORT INFORMATION**

LB-K100-0126-4

3M MATERIAL SAFETY DATA SHEET 3M(TM) Automix(TM) Panel Bonding Adhesive - Part B, PN 08116 (Meets GM 6449G and Daimler Chrysler MS-CD 507) 07/23/2007

Please contact the emergency numbers listed on the first page of the MSDS for Transportation Information for this material.

# **SECTION 15: REGULATORY INFORMATION**

#### **US FEDERAL REGULATIONS**

Contact 3M for more information.

#### 311/312 Hazard Categories:

Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No Immediate Hazard - Yes Delayed Hazard - Yes

#### **STATE REGULATIONS**

Contact 3M for more information.

#### CALIFORNIA PROPOSITION 65

Ingredient CARBON BLACK SILICA, CRYSTALLINE (AIRBORNE PARTICLES OF RESPIRABLE SIZE) <u>C.A.S. No.</u> 1333-86-4 NONE Classification \*\*Carcinogen \*\*Carcinogen

\*\* WARNING: contains a chemical which can cause cancer.

### **CHEMICAL INVENTORIES**

The components of this product are in compliance with the chemical notification requirements of TSCA.

Contact 3M for more information.

### **INTERNATIONAL REGULATIONS**

Contact 3M for more information.

WHMIS: Hazardous

This MSDS has been prepared to meet the U.S. OSHA Hazard Communication Standard, 29 CFR 1910.1200.

## **SECTION 16: OTHER INFORMATION**

#### NFPA Hazard Classification

Health: 2 Flammability: 1 Reactivity: 0 Special Hazards: None

National Fire Protection Association (NFPA) hazard ratings are designed for use by emergency response personnel to address the hazards that are presented by short-term, acute exposure to a material under conditions of fire, spill, or similar emergencies. Hazard ratings are primarily based on the inherent physical and toxic properties of the material but also include the toxic properties of combustion or decomposition products that are known to be generated in significant quantities.

Revision Changes:

Section 1: Product use information was modified.

Copyright was modified.

Section 4: First aid for eye contact - decontamination - was modified.

Section 4: First aid for eye contact - medical assistance - was modified.

Section 3: Potential effects from eye contact was modified.

- Section 3: Potential effects from skin contact information was modified.
- Section 3: Potential effects from inhalation information was modified.
- Section 3: Potential effects from ingestion information was modified.

Section 7: Handling information was modified.

Section 7: Storage information was modified.

- Section 8: Engineering controls information was modified.
- Section 8: Eye/face protection phrase was modified.
- Section 4: First aid for ingestion (swallowing) decontamination was modified.
- Section 3: Immediate other hazard(s) was modified.

Section 2: Ingredient table was modified.

- Section 15: California proposition 65 ingredient information was modified.
- Section 3: Carcinogenicity table was modified.
- Section 8: Exposure guidelines ingredient information was modified.
- Sections 3 and 9: Odor, color, grade information was modified.
- Section 9: Property description for optional properties was modified.
- Section 9: Specific gravity information was modified.
- Section 3: Immediate eye hazard(s) was deleted.
- Section 8: Exposure guideline note was deleted.

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